CLAIMS

I claim:

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- 1. A hitch for attaching an implement to a motorized vehicle comprising:
- (a) a rigid generally U-shaped frame comprising pair of a legs connecting to a cross member thereinbetween, a pair of spaced apart sockets on said frame at a location remote from a free outer end of each one of said legs of said U-shaped frame, said free outer end of each leg being pivotally attachable to the motorized vehicle,
- (b) a rigid link selectively adjustably connected to free outer end of each of said legs of said U-shaped frame, and means limiting arcuate movement of said U-shaped frame, and
- (c) an extendible and retractable power driven jack unit disposed within said U-shaped frame and connecting at one end to said link and means for connecting the other end to the motorized vehicle.
- 2. A hitch as defined in claim 1 wherein the sockets are elongate, axially parallel sockets.
- 3. The hitch as defined in claim 2 wherein a distal end of said legs of the U-shaped frame project beyond said U-shaped frame and wherein the sockets are located in such projecting portion.
 - 4. The hitch as defined in claim 1 wherein the u-shaped frame comprises a pair of parallel conduits open at one end thereof and a cross member interconnecting said conduits adjacent said open ends, said open ends providing said sockets.
 - 5. The hitch as defined in claim 4 wherein the ends of the conduits opposite said open ends have an apertured lug for pivotal attachment to the motorized vehicle.

- 6. The hitch as defined in claim 1 wherein said rigid link is connected to a lug projecting said rigid frame by a pivot pin and wherein said lug has a series of spaced apart apertures for receiving said pin and thereby being selectively adjustably connectable.
- 7. The hitch as defined in claim 6 wherein there are a pair of said lugs spaced apart from one another and wherein said link projects between said lugs.
- 8. The hitch as defined in claim wherein said means limiting said arcuate movement is adjustable to vary the length of arcuate movement.
 - 9. The hitch as defined in claim 1 wherein said means connecting the jack unit to the motorized vehicle comprises a coupler.
 - 10. The hitch as defined in claim 9 wherein said coupler is Z-shaped.
 - 11. The hitch as defined in claim 9 wherein said coupler has a shaft insertable into a socket receiver therefor on the vehicle.
- 20 12. A hitch and lift assembly, comprising:

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a rigid U-shaped frame comprising a cross member having a pair of elongated members extending therefrom defining a pair of free outer ends and said longitudinal members including a pair of sockets projecting outwardly pass said cross member;

means for pivotally detachable engagement of said free outer ends of said longitudinal members to said vehicle frame;

a floating and lockable cam providing limited arcuate movement of said U-shaped frame;

means for limiting the arcuate movement of said U-shaped frame;

an electrically powered extendible and retractable power driven jack unit connecting at one end to said floating and lockable cam;

a receiver mounted on a vehicle frame;

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a coupler connecting said hydraulic jack unit to said receiver;

an adjusting mechanism connecting said hydraulic jack unit to said U-shaped frame.

- 13. The hitch and lift assembly of claim 12, including means for coarse adjustment for varying the height and tilt positions of an implement.
 - 14. The hitch and lift assembly of claim 13, including wherein said means for coarse adjustment comprises a floating cam link pivotally connected at one end by a pin to a distal end of a piston rod of said hydraulic jack and the other end projects between a pair of mounting plates rigidly anchored to and projecting from said frame cross member, said mounting including a plurality of holes for selectively adjusting the angle and distance of said piston rod pivotally connecting thereto, and having a pin passing through one of said holes and a hole in said floating cam link providing a loose connection providing for pivotal movement about said pin.
 - 15. The hitch and lift assembly of claim 12, including means for fine adjustment for varying the height and tilt positions of an implement.
 - 16. The hitch and lift assembly of claim 15, wherein said fine adjusting mechanism comprises a stud threaded into a vertically threaded hole adjacent an end of said floating cam link and a foot plate on the end of a stud bearing against said cross member, and a hand grip knob provides means to manually turn said

stud providing fine adjustment thereof.

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- 17. The hitch and lift assembly of claim 16, wherein means of locking said floating cam link comprises a lever threaded on said stud for locking said stud in position by binding said stud against said floating cam link at a desired position.
- 18. The hitch and lift assembly of claim 12, including an implement having pins for cooperative engagement with said sockets of said U-shaped frame.
- 19. A hitch for attaching an implement to a motorized vehicle10 comprising
 - (a) a rigid generally U-shaped frame including a pair of a parallel conduits open at one end thereof and connecting to a cross member interconnecting said conduits adjacent said open ends defining sockets, said parallel conduits having ends opposite said open ends defining a pair of apertured lugs spaced apart from one another for pivotal attachment to a vehicle frame;
 - (b) means for removably attaching said lugs to said vehicle frame;
 - (c) a rigid link selectively adjustably connected to and projecting between said lugs projecting from said rigid frame by a pivot pin and wherein said lugs have a series of spaced apart apertures for receiving said pin and thereby being selectively adjustably connectable;

means limiting arcuate movement of said U-shaped frame, and

- (d) an extendible and retractable power driven jack unit connecting at one end to said link and a Z-shaped coupler for connecting the other end to the motorized vehicle.
- 20. A hitch for attaching an implement to a motorized vehicle comprising:
 - (a) a rigid generally U-shaped frame including a pair of a

parallel conduits open at one end thereof and connecting to a cross member interconnecting said conduits adjacent said open ends defining sockets, said parallel conduits having ends opposite said open ends defining a pair of apertured lugs spaced apart from one another for pivotal attachment to a vehicle frame;

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- (b) means for removably attaching said lugs to said vehicle frame;
- (c) a rigid link selectively adjustably connected to and projecting between said lugs projecting from said rigid frame by a pivot pin and wherein said lugs have a series of spaced apart apertures for receiving said pin and thereby being selectively adjustably connectable;

means limiting arcuate movement of said U-shaped frame, and

(d) an extendible and retractable power driven jack unit connecting at one end to said link and a coupler for connecting the other end to the motorized vehicle.